

**Probability – Checkpoint Primary Math****1.**

Safia has nine digit cards.  
Her cards are numbered 1 to 9  
She places them randomly in a line.  
She turns over four cards to see the digits.

|   |   |   |   |  |  |  |  |
|---|---|---|---|--|--|--|--|
| 8 | 1 | 3 | 5 |  |  |  |  |
|---|---|---|---|--|--|--|--|

Safia says,

‘The next number is more likely to be greater than 5 than less than 5’

Tick (✓) to show if Safia is correct.

Yes

☐

No

☐

Explain how you know.

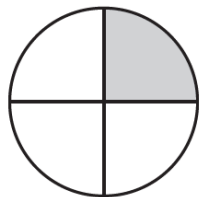
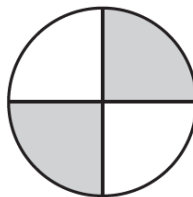
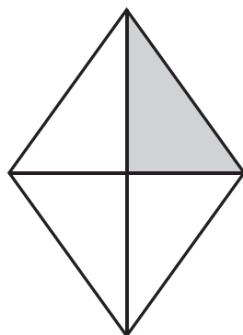
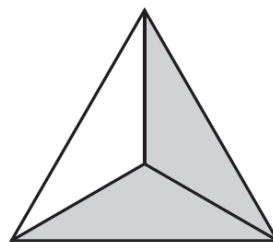
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[1]

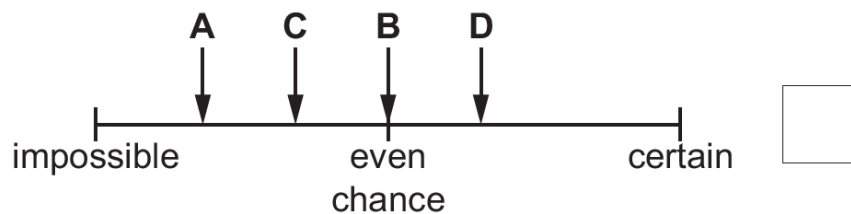
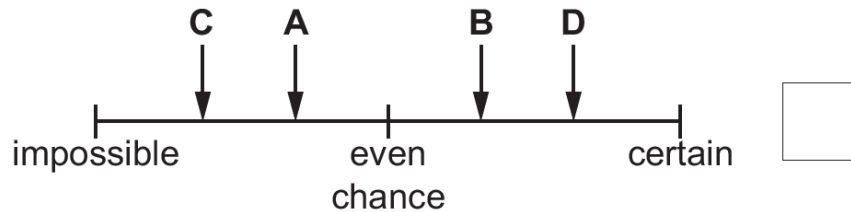
2.

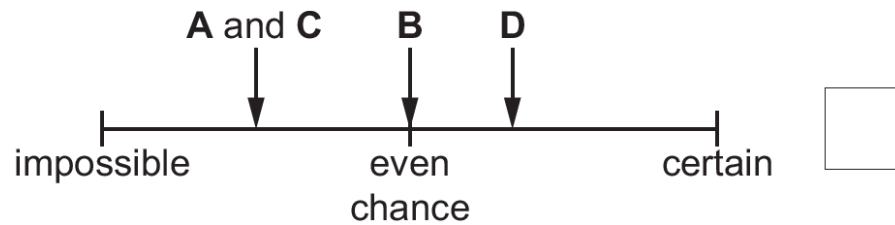
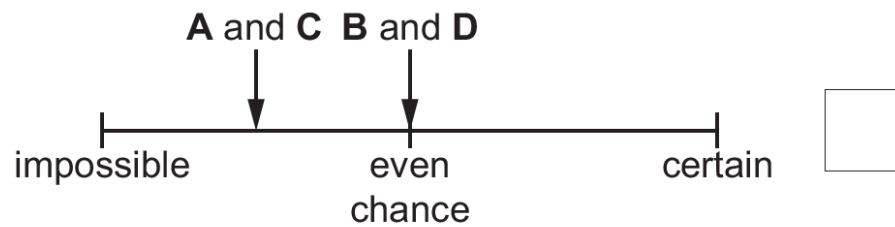
Here are drawings of four spinners.

**A****B****C****D**

Ahmed wants to land on a shaded section when he spins a spinner. He marks the likelihood of landing on a shaded section on a likelihood scale.

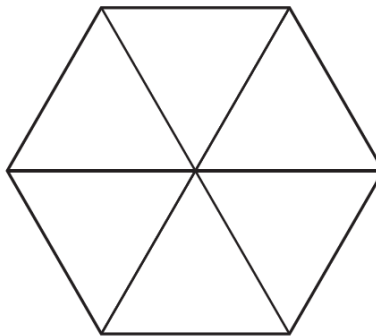
(a) Tick (✓) the scale that shows the correct likelihood marked for each spinner.





[1]

**(b)** Here is a new spinner.



Ahmed says,

‘Spinner D and this spinner are equally likely to spin a shaded section.’

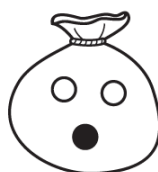
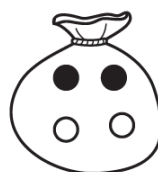
Shade the new spinner to make his statement correct.

[1]

3.

Eva has five bags.

Each bag contains only black and white beads.

**A****B****C****D****E**

Eva picks one bead at random from a bag.

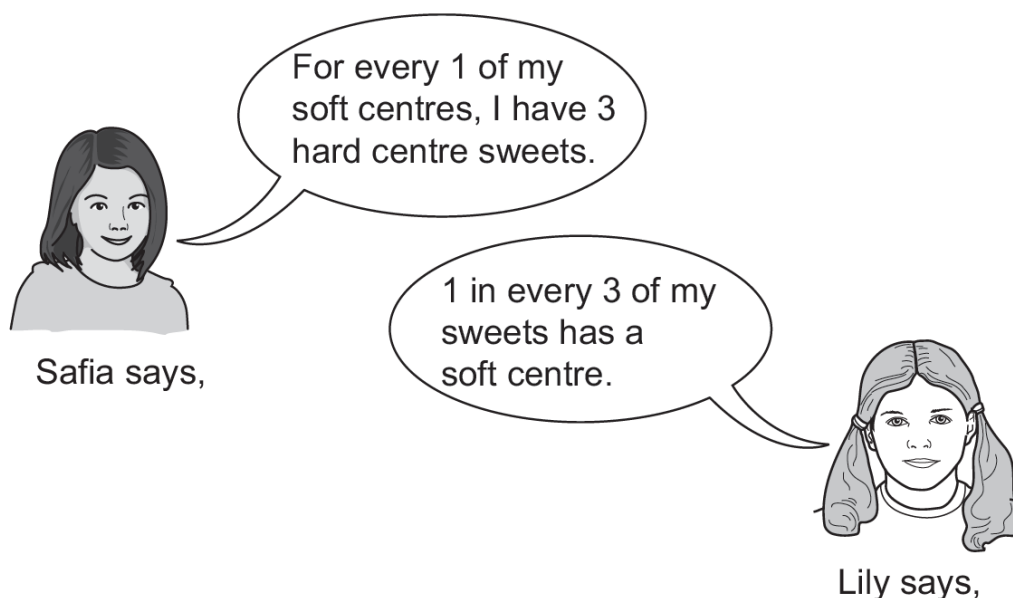
Write the letter of the bag where she is **most likely** to pick a black bead.

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4.

Safia and Lily each have the same number of sweets.

Some of the sweets have soft centres and some of the sweets have hard centres.



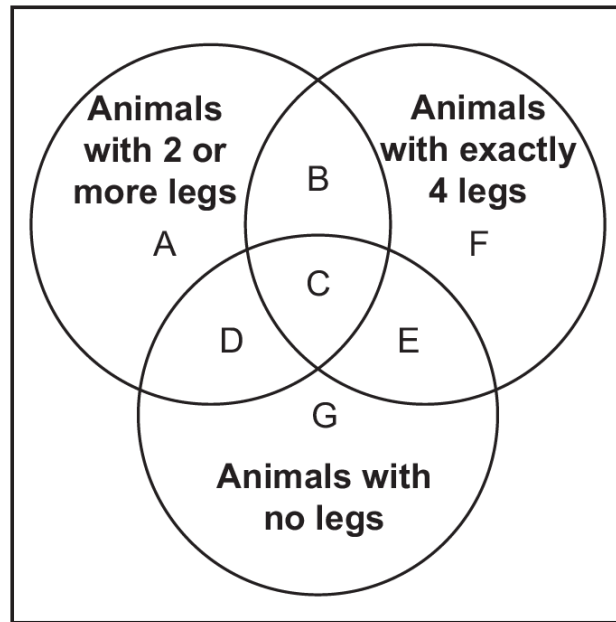
Safia has 27 sweets with hard centres.

Calculate the number of sweets with hard centres that Lily has.

..... [2]

5.

Here is a Venn diagram.



Write the letters of **all** the sections of the Venn diagram that must be empty.

..... [1]

6.

Hassan has 8 counters.  
He picks a counter at random.

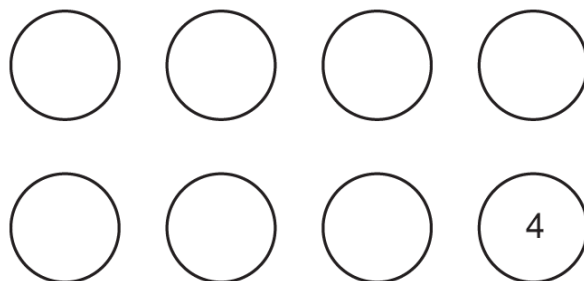
He is equally likely to pick a 1 or 2

There is an even chance of picking an odd number.

The chance of picking a 4 is less likely than the chance of picking a 1 or a 2

Write one number on each counter to make the statements correct.

One has been done for you.



[1]